

Manistique Field Office
Luce, Schoolcraft and west half of Mackinac Counties

Component Costs, August 2002	Unit	Cost per Unit
Aerators for commercial fish ponds	ea.	\$1,200.00
Aggregate, Crushed Limestone, 9-inch thick, with Class IV Woven Geotextile, Installed (Heavy Use Area)	cu. yd.	\$34.00
Agrichemical Containment Facility, Building ONLY, for Pesticide Containment and/or Mix-Load, Installed (floor and liner/sealer extra)	sq. ft.	ask Eng.
Agrichemical Containment Facility, Concrete Sealer, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, EPDM Liner, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, HDPE Liner, Installed	sq. ft.	\$2.50
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner extra)	sq. ft.	\$11.00
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	\$10.00
Agrichemical Containment Facility, Prefabricated Sump with Grate, Installed	ea.	\$1,000.00
Agrichemical Containment Facility, Reinforced Concrete Floor, Concrete Block (2 ft. x 2 ft. x 4 ft. or x 6 ft.) Walls, Installed (liner extra)	sq. ft.	\$11.00
Agrichemical Containment Facility, Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner or sealer extra)	sq. ft.	\$12.00
Agrichemical Containment Facility, Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	\$8.50
Agrichemical Containment Facility, with Earth Berm, Installed (liner extra)	sq. ft.	\$1.50
Aquatic Plant Establishment	ac.	
Aquatic Weed Control - Chemical	ac.	
Aquatic Weed Control - Habitat Manipulation	ac.	
Aquatic Weed Control - Mechanical	ac.	
Backhoe, Hydraulic, Track Mounted, with Operator	hr.	\$125.00
Backhoe/Loader, Tractor-type, with Operator	hr.	\$80.00
Bioengineering, Brush Layering	sq. yd.	ask Eng.
Bioengineering, Brush Mattress		ask Eng.
Bioengineering, Cribwall, Live		ask Eng.
Bioengineering, Fachines, Live	ft.	ask Eng.
Bioengineering, In Stream Rock Structures (Barbs, etc.)	ea.	ask Eng.
Bioengineering, Root Wads	ea.	ask Eng.
Bioengineering, Staking, Live	ea.	ask Eng.
Bioengineering, Tree Revetments		ask Eng.
Bioengineering, Vegetated Geogrid		ask Eng.
Biological treatment - pest management	ac.	ask bio
Bituminous Pavement, 3-inch thick, Installed	sq. ft.	\$1.35
Burning for prescribed burning	ac.	\$120.00
Chemical application for burndown	ac.	\$25.00
Chemical Weed Control	ac.	\$55.00
Concrete Block Chute, with Geotextile, Installed	sq. ft.	ask Eng.
Concrete Blocks, 2 ft. x 2 ft. x 4 ft., Installed	ea.	\$60.00
Concrete Blocks, 2 ft. x 2 ft. x 6 ft., Installed	ea.	\$60.00
Concrete, Non-Reinforced, 4-inch Thick over Compacted Sand, Flatwork, Installed	sq. ft.	\$2.25
Concrete, Non-Reinforced, 5-inch Thick over Compacted Sand, Flatwork, Installed	sq. ft.	\$2.90
Concrete, Non-Reinforced, Low Slump, 4-inch Thick, Flat or Slope,	sq. ft.	\$2.50

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Installed		
Concrete, Non-Reinforced, Low Slump, 5-inch Thick, Flat or Slope, Installed	sq. ft.	\$3.10
Concrete, Reinforced, Cast In Place, Flat or Slope Installed	cu. yd.	\$200.00
Concrete, Reinforced, Cast In Place, Walls between 2 feet and 4 feet high, Installed	cu. yd.	\$280.00
Concrete, Reinforced, Cast In Place, Walls greater than 4 feet high, Installed	cu. yd.	\$350.00
Concrete, Reinforced, Cast In Place, Walls less than 2 feet high, Installed	cu. yd.	\$200.00
Conservation Crop Rotation	ac.	\$7.00
Contour Establishment for 330	ac.	\$10.00
Corn cobs, sawdust or gravel, installed	ac.	ask Eng.
Corridor Establishment	ft.	Ask Bio
Cultural Grazing	ac.	\$15.00
Cultural Grazing (temporary fence)	ac.	\$15.00
Cultural Grazing (temporary water)	ft.	\$0.15
Deep Plowing	ac.	\$25.00
Deflectors for stream habitat improvement	ft.	\$50.00
Dewatering	hr.	ask Eng.
Disking	ac.	\$15.00
Dozer, 105 HP, with Operator	hr.	\$75.00
Dozer, 200 HP, with Operator	hr.	\$90.00
Dozer, 75 HP, with Operator	hr.	\$65.00
Dry Hydrant, with Head, Cap, and Strainer, incl. Fittings, Installed	ea.	\$3,000.00
Dump Truck, 12 Cu.Yd., with Operator	hr.	\$70.00
Dump Truck, 6 Cu.Yd., with Operator	hr.	\$65.00
Earthfill, Compacted, Off-site Material (3 mile haul)	cu. yd.	\$13.00
Earthfill, Compacted, On-site Material	cu. yd.	\$5.00
Excavation, Common	cu. yd.	\$3.50
Excavation, Rock	cu. yd.	\$7.00
Excavation, Wet	cu. yd.	\$5.50
Fencing, 3 strand barbed wire, Installed	ft.	\$1.50
Fencing, Electric, Single Strand, Smooth Wire, Installed	ft.	\$1.05
Fencing, For Elk, etc. Woven Wire panels up to 10 ft., Installed	ft.	
Fencing, Smooth 5-Wire, Installed	ft.	\$0.90
Fencing, Woven Wire, Installed	ft.	\$1.90
Firebreak, Permanent Vegetative Seeding (grasses or forbes)	ac.	\$250.00
Fish - stocking	ea.	Ask Bio
Forest Site Preparation, Hand-Chemical (includes equipment and labor)	ac.	\$120.00
Forest Site Preparation, Machine-Chemical (includes equipment and labor)	ac.	\$250.00
Forest Site Preparation, Machine-Mechanical (includes equipment and labor)	ac.	\$100.00
Forest Trail and Walkway, Broad-based Dip, Water Bar, Opentop box culvert corrugated metal pipe with rip-rap outlet	ea.	\$450.00
Geotextile Reinforced Vegetated Chute, Installed (including Earthwork, Geotextile, Erosion Control Blanket, and Seeding with Fertilizer, etc.)	sq. ft.	\$5.00
Grading and Shaping, Diversion, Installed	lin. ft.	\$4.00
Grading and Shaping, Grassed Filter Strip Area (Not Channelized) [standard 780], Installed	lin. ft.	ask Eng.
Grading and Shaping, Grassed Channelized Filter Strip (up to 40 feet wide) [standard 780], Installed	lin. ft.	\$5.00

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Grading and Shaping, Grassed Waterway, Installed	lin. ft.	\$4.00
Grain Food Plots	ac.	\$150.00
Gravel, 22A or 23 A (Road Gravel), Installed	cu. yd.	\$25.00
Gravel, Bank Run, Installed	cu. yd.	\$18.00
Gravel, Drain Fill, Installed	cu. yd.	\$27.00
Herbaceous cover cool season annual species, preparation, seed, fertilizer and planting	ac.	\$150.00
Herbaceous cover cool season, perennial preparation, seed, fertilizer and planting	ac.	\$250.00
Herbaceous cover warm season, annual, preparation, seed, fertilizer and planting	ac.	\$150.00
Herbaceous cover warm season, perennial, preparation, seed, fertilizer and planting	ac.	\$350.00
Herbaceous plants and hand planting	ea.	\$5.00
Herbaceous wind barrier, Annual cool season, site preparation, seed, fertilizer, planting	ac.	\$150.00
Herbaceous wind barrier, Annual warm season, site preparation, seed, fertilizer, planting	ac.	\$150.00
Herbaceous wind barrier, perennial cool season, site preparation, seed, fertilizer, planting	ac.	\$250.00
Herbaceous wind barrier, Perennial warm season, site preparation, seed, fertilizer, planting	ac.	\$350.00
Herbicides and application (hand)	ac.	\$120.00
Herbicides and application (machine)	ac.	\$250.00
Instream Woody Cover	sq. yd.	Ask Bio
Irrigation System, Big Gun (traveler), Nozzles, Fittings, etc., Installed	ac.	\$700.00
Irrigation System, Center Pivot System, Nozzles, Fittings, etc., Installed	ac.	\$700.00
Irrigation System, Linear Move System, Nozzles, Fittings, etc., Installed	ac.	\$800.00
Irrigation System, Micro Tubing, Emitters, Nozzles, Fittings, etc., Installed	ac.	\$1,600.00
Irrigation System, Microirrigation (tape) , Emitters, Fittings, etc. Installed	ac.	\$1,500.00
Irrigation System, Side Roll, Nozzles, Fittings, etc., Installed	ac.	\$650.00
Irrigation System, Solid Set System, Nozzles, Fittings, etc., Installed	ac.	\$2,300.00
Layout of contour strips - stripcropping 585	ac.	\$10.00
Linear Channel Concrete for Fish Raceway	ft.	Ask Bio
Linear Channel Earthen for Fish Raceway	ft.	Ask Bio
Lunker Structures	ft.	\$30.00
Mechanical Machine scalping (if not done during planting process)	ac.	\$45.00
Mechanical treatment - brush & pest management	ac.	\$125.00
Metal Fabrication, Installed	ea.	ask Eng.
Mowing	ac.	\$25.00
Mulch, installed (includes labor)	sq. ft.	\$0.02
Native grass drill delivery fee	ea.	\$50.00
Native grass seeding includes fertilizer, seed, labor and equipment	ac.	\$350.00
Native prairie planting	ac.	\$400.00
Nesting Structures (platforms, boxes)	ea.	\$225.00
No-Till, spray, seed, fertilizer, planting and weed control	ac.	site specific
Pasture and Hayland planting, Heavy soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$200.00
Pasture and Hayland Planting, Light soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$200.00

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Pasture and Hayland Planting, Medium soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$200.00
Pest protection for trees/shrubs, fabric weed barrier	ea.	\$1.00
Pest protection for trees/shrubs, Organic Mulch	cu. yd.	\$9.00
Pest protection, tree protectors (tubes, plastic rodent protectors, plastic mesh, wire mesh) includes installation with wood or metal stakes	ea.	\$3.50
Pipe Arch, Aluminum, Installed	lin. ft.	ask Eng.
Pipe Arch, Reinforced Concrete, Installed	lin. ft.	ask Eng.
Pipe Trenching, (w/Backhoe)	lin. ft.	\$2.50
Pipe Trenching, (w/Trencher)	lin. ft.	\$1.50
Pipe, Corrugated Metal, 10-inch, Incl. Fittings, Installed	lin. ft.	\$8.00
Pipe, Corrugated Metal, 12-inch, Incl. Fittings, Installed	lin. ft.	\$9.00
Pipe, Corrugated Metal, 15-inch, Incl. Fittings, Installed	lin. ft.	\$9.50
Pipe, Corrugated Metal, 18-inch, Incl. Fittings, Installed	lin. ft.	\$10.00
Pipe, Corrugated Metal, 24-inch, Incl. Fittings, Installed	lin. ft.	\$12.00
Pipe, Corrugated Metal, 30-inch, Incl. Fittings, Installed	lin. ft.	\$17.00
Pipe, Corrugated Metal, 36-inch, Incl. Fittings, Installed	lin. ft.	\$30.00
Pipe, Corrugated Metal, 6-inch, Incl. Fittings, Installed	lin. ft.	\$6.00
Pipe, Corrugated Metal, 8-inch, Incl. Fittings, Installed	lin. ft.	\$7.00
Pipe, Corrugated Plastic (Dual Wall), 10-inch, Incl. Fittings, Installed	lin. ft.	\$6.00
Pipe, Corrugated Plastic (Dual Wall), 12-inch, Incl. Fittings, Installed	lin. ft.	\$7.00
Pipe, Corrugated Plastic (Dual Wall), 15-inch, Incl. Fittings, Installed	lin. ft.	\$8.00
Pipe, Corrugated Plastic (Dual Wall), 18-inch, Incl. Fittings, Installed	lin. ft.	\$10.00
Pipe, Corrugated Plastic (Dual Wall), 24-inch, Incl. Fittings, Installed	lin. ft.	\$14.00
Pipe, Corrugated Plastic (Dual Wall), 30-inch, Incl. Fittings, Installed	lin. ft.	\$21.00
Pipe, Corrugated Plastic (Dual Wall), 36-inch, Incl. Fittings, Installed	lin. ft.	\$27.00
Pipe, Corrugated Plastic (Dual Wall), 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, Corrugated Plastic (Dual Wall), 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, Corrugated Plastic (Dual Wall), 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 10-inch, Incl. Fittings, Installed	lin. ft.	\$6.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 12-inch, Incl. Fittings, Installed	lin. ft.	\$7.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, Manhole, Reinforced Concrete, with grate or cover, Installed	ea.	ask Eng.
Pipe, PE, 1-1/2-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.75
Pipe, PE, 1-1/4-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.50
Pipe, PE, 1-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.25
Pipe, PE, 2-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$2.00
Pipe, PVC, SCH-40, 10-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, PVC, SCH-40, 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, PVC, SCH-40, 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, PVC, SCH-40, 8-inch, Incl. Fittings, Installed	lin. ft.	\$4.50
Pipe, Reinforced Concrete, 12-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 18-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.

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Pipe, Reinforced Concrete, 24-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 30-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 36-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipeline Mechanical Station, with Pressure Tank and Appurtenances, Installed (for Watering Facility)	ea.	ask. Eng.
Pond Sealing and Lining, Bentonite-Soil Mixture, incl. Materials and Labor, Installed (at 3 lbs Bentonite per sq. ft.)	sq. ft.	\$3.50
Pond Sealing and Lining, Earthfill, Clay Liner, Off-site Clay Material (10-mile haul), Installed	cu. yd.	\$15.00
Pond Sealing and Lining, Earthfill, Clay Liner, On-site Clay Material, Installed	cu. yd.	\$5.00
Pond Sealing and Lining, EPDM (45 mil), incl. Materials and Labor, Installed	sq. ft.	\$2.00
Pond Sealing and Lining, Geosynthetic Clay Liner, incl. Materials and Labor, Installed	sq. ft.	\$3.00
Pond Sealing and Lining, HDPE (40 mil), incl. Materials and Labor, Installed	sq. ft.	\$1.75
Pond Sealing and Lining, HDPE (60 mil), incl. Materials and Labor, Installed	sq. ft.	\$2.50
Pond Sealing and Lining, Soil Dispersant, incl. Materials and Labor, Installed	sq. ft.	\$3.50
Pump Station, incl. Materials and Labor, Installed	ea.	ask Eng.
Ram Pump, Livestock Water, Complete, Installed	ea.	\$1,500.00
Ripping for Deep Tillage	ac.	\$25.00
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,060.00
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,174.00
Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,480.00
Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,570.00
Riser, Corrugated Metal, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,000.00
Riser, Corrugated Metal, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,800.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,200.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,400.00
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,000.00
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,160.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,166.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,366.00
Riser, Corrugated Plastic, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,074.00

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Riser, Corrugated Plastic, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,856.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,200.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,400.00
Rock Riprap, D-50 = 12 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rock Riprap, D-50 = 15 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rock Riprap, D-50 = 18 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rock Riprap, D-50 = 4 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rock Riprap, D-50 = 6 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rock Riprap, D-50 = 9 inch, with Geotextile, Installed	cu. yd.	\$42.00
Rodent Guard, 10-inch, Installed	ea.	\$14.00
Rodent Guard, 12-inch, Installed	ea.	\$15.00
Rodent Guard, 15-inch, Installed	ea.	\$22.00
Rodent Guard, 4-inch, Installed	ea.	\$10.00
Rodent Guard, 6-inch, Installed	ea.	\$12.00
Rodent Guard, 8-inch, Installed	ea.	\$13.00
Roof Gutters, with downspouts, Installed	lin. ft.	\$6.00
Roof, Hoop Structure, greater than 40 ft. span, Installed	sq. ft.	ask Eng.
Roof, Hoop Structure, up to 40 ft. span, Installed	sq. ft.	\$5.00
Roof, Truss Structure, greater than 40 ft. span, Installed	sq.ft.	ask Eng.
Roof, Truss Structure, up to 40 ft. span, Installed	sq. ft.	\$5.00
Row-Till for Deep Tillage	ac.	\$25.00
Salvaging and Spreading Topsoil	cu. yd.	\$4.50
Scouting, traps, baits, etc., - pest management	ac.	\$5.00
Seed, Mulch and Fertilizer (includes labor) forest site	ac.	\$800.00
Seedbed Preparation forest site	ac.	\$200.00
Seeding, Cool Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	\$850.00
Seeding, Drill or Broadcast, with Seedbed Preparation, Fertilizer, Mulch and Netting, Installed	ac.	\$900.00
Seeding, Hydroseed, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	\$900.00
Seeding, Warm Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	\$1,200.00
Seeding, with Seedbed Preparation, Fertilizer, Mulch and Erosion Control Blanket, Installed	ac.	\$950.00
Sheet Piling, Installed	ton	ask Eng.
Silt Fence, Installed	lin. ft.	\$1.50
Site Preparation (Clearing and grubbing)	ac.	\$3,000.00
Site Preparation for fence (Clearing and grubbing)	hr.	\$100.00
Site preparation for stream habitat improvement	ac.	Ask Bio site
Sodding	ac.	specific
Soil test annually for vegetable, flower, ornamentals and shrubs, sampling, calibration of application equipment, recordkeeping	ac.	\$3.80
Soil test including pre side dress nitrogen test, composite sampling, manure testing, calibration of application equipment, recordkeeping; manure and fertilizer use	ac.	\$4.20

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Soil test including pre side dress nitrogen test, grid sampling, manure testing, calibration of application equipment, recordkeeping; manure and fertilizer use	ac.	\$4.20
Soil test, composite sampling, calibration of application equipment, recordkeeping; fertilizer use only	ac.	\$3.27
Soil test, grid sampling, calibration of application equipment, recordkeeping; fertilizer use only	ac.	\$3.27
Spoil Spreading	cu. yd.	\$3.50
Spot or band spraying	ac.	\$30.00
Spring Development, Complete System (does not include Tank or Trough), Installed	ea.	ask Eng.
Straw or hay mulch, installed	ac.	\$800.00
Stream Crossing, with 1 foot thick Coarse Aggregate Ramp, Installed on mineral soil	sq. ft.	\$6.00
Strip layout	ac.	\$5.00
Structure Removal	ea.	ask Eng.
Structures (boxes, brush piles, etc.)	ea.	\$50.00
Subsoiling	ac.	\$50.00
Subsurface Drain Removal or Destruction (tile break)	ea.	\$350.00
Surface Drain Filling (ditch plug)	ea.	\$250.00
Surface Inlet, Perforated, incl., Fittings, Installed (for WASCObS and Terraces)	ea.	\$300.00
Tank Raceway Concrete	gal.	Ask Bio
Tank Raceway Fiberglass	gal.	Ask Bio
Tank Raceway Metal	gal.	Ask Bio
Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Poles (trees 5-11" DBH)	sq. ft. of b.a. removed	\$1.32
Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Saplings (trees under 5" DBH)	sq. ft. of b.a. removed	\$1.96
Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Saw timber size culls (trees over 11" DBH)	sq. ft. of b.a. removed	\$0.87
Tillage	ac.	\$15.00
Timber Fabrication, Treated, Installed	bd. ft.	ask Eng.
Timber harvesting	ac.	\$234.00
Tissue test for small fruit and tree crops, soil ph test, sampling, calibration of application equipment, recordkeeping	ac.	N/A
Tree Planting-Hand (includes scalping, equipment and labor)	ea.	\$0.16
Tree Planting-Machine (includes scalping, equipment and labor)	ea.	\$0.14
Tree Pruning - Trees 10 up to 18ft. (includes labor and equipment)	per tree	\$1.00
Tree Pruning - Trees 18 ft. up to 26 ft. (includes labor and equipment)	per tree	\$1.25
Tree Pruning - Trees up to 10 ft. (includes labor and equipment)	per tree	\$0.85
Trees/Shrubs (see Alley Cropping) Bare root or Containerized Plugs	ea.	Ask Agron
Trees/Shrubs-conifer bare root or containerized plugs 2-0 to 3-0 stock	ea.	\$0.18
Trees/Shrubs-deciduous	ea.	\$0.33
Trough or Tank, Galv., 100 gal., with Gravel Pad, Installed	ea.	\$340.00
Trough or Tank, Galv., 200 gal., with Gravel Pad, Installed	ea.	\$360.00
Trough or Tank, Galv., 400 gal., with Gravel Pad, Installed	ea.	\$410.00

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Trough or Tank, Poly., 100 gal., with Gravel Pad, Installed	ea.	\$330.00
Trough or Tank, Poly., 200 gal., with Gravel Pad, Installed	ea.	\$390.00
Trough or Tank, Poly., 400 gal., with Gravel Pad, Installed	ea.	\$460.00
Vegetative barrier, layout, site preparation, plant material plugs, hand planting and weed control		site specific
Vegetative Control - Chemical	ac.	\$55.00
Vegetative Control - Manual		site specific
Vegetative Control - Mowing	ac.	\$30.00
Vegetative Establishment - Native prairie	ac.	\$350.00
Vegetative Establishment - Native shrub	ea.	\$0.75
Vegetative Establishment - Native trees	ea.	\$0.50
Vine Removal in forest	ea.	\$0.35
Waste Storage Facility, Above Ground Circular Metal Structure, Installed	ea.	ask Eng.
Waste Storage Facility, Below Ground Reception Pit, Reinforced Concrete, with Pump and Appurtenances, Installed	ea.	ask Eng.
Water Control Structure, In-Line, 4-feet high, 10-inch pipe, Installed (pipe extra)	ea.	\$625.00
Water Control Structure, In-Line, 4-feet high, 12-inch pipe, Installed (pipe extra)	ea.	\$700.00
Water Control Structure, In-Line, 4-feet high, 18-inch pipe, Installed (pipe extra)	ea.	\$825.00
Water Control Structure, In-Line, 4-feet high, 24-inch pipe, Installed (pipe extra)	ea.	\$1,500.00
Water Control Structure, In-Line, 4-feet high, 6-inch pipe, Installed (pipe extra)	ea.	\$500.00
Water Control Structure, In-Line, 4-feet high, 8-inch pipe, Installed (pipe extra)	ea.	\$600.00
Weed Control for trees - Herbicides and application (hand)	ac.	\$88.00
Weed Control for trees - Herbicides and application (machine)	ac.	\$60.00
Weed Control for trees - Mechanical machine scalping (if not done during planting)	ac.	\$45.00
Well Decommissioning, Bedrock Well	ea.	\$1,200.00
Well Decommissioning, Dug Well	ea.	\$800.00
Well Decommissioning, Sand/Gravel Well	ea.	\$400.00
Well Pump, Deep Water, Installed	ea.	ask Eng.
Well Pump, Shallow Water, Installed	ea.	ask Eng.
Well, Drilled, 12-inch, Installed	lin. ft.	\$60.00
Well, Drilled, 5-inch, Installed	lin. ft.	\$20.00
Well, Drilled, 6-inch, Installed	lin. ft.	\$25.00
Wildflower Planting	ac.	\$500.00
Wood chips or bark, installed	ac.	site specific
Woody Plant Control	ac.	\$80.00
Zone Tillage or Para Plowing	ac.	\$50.00